

# Comparisons of Job Characteristics

**Focus Occupation:** First-Line Supervisors of Production and Operating Workers (51-1011)  
**Associated Occupation:** Industrial Engineering Technicians (17-3026)

Compare Knowledge  
 Compare Skills  
 Compare Abilities  
 Compare Detailed Work Activities  
 Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 81

**Focus Occupation:** First-Line Supervisors of Production and Operating Workers (51-1011)  
**Associated Occupation:** Industrial Engineering Technicians (17-3026)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Production and Processing	6.0	18.0	17.4	0	Current knowledge level may be sufficient
Engineering and Technology	5.7	16.7	8.3	<<	Extensive education and/or training may be required
Mathematics	9.2	15.6	10.6	<<	Extensive education and/or training may be required
Clerical	7.3	15.3	7.8	<<	Extensive education and/or training may be required
Design	5.2	13.4	6.5	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 65

**Focus Occupation:** First-Line Supervisors of Production and Operating Workers (51-1011)  
**Associated Occupation:** Industrial Engineering Technicians (17-3026)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Monitoring	9.9	15.5	10.6	<<	Extensive development of skills in this area may be required
Complex Problem Solving	9.1	13.2	10.7	<	A higher skill level may be required
Mathematics	6.2	12.0	5.8	<<	Extensive development of skills in this area may be required
Systems Evaluation	6.4	12.0	8.3	<<	Extensive development of skills in this area may be required
Systems Analysis	6.5	11.8	8.5	<<	Extensive development of skills in this area may be required

Technology Design	2.6	8.5	2.2	<<	Extensive development of skills in this area may be required
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 91			
Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Industrial Engineering Technicians (17-3026)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Near Vision	11.1	13.3	10.2	<<	Extensive improvement in abilities may be required
Number Facility	6.3	11.1	6.2	<<	Extensive improvement in abilities may be required
Selective Attention	8.7	11.0	8.9	<	Some improvement in abilities may be required
Originality	7.6	10.7	9.7	<	Some improvement in abilities may be required
Fluency of Ideas	7.6	10.4	9.1	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	10.3	7.1	<<	Extensive improvement in abilities may be required
Visualization	7.5	10.3	8.1	<	Some improvement in abilities may be required
Speed of Closure	5.9	8.1	6.1	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 66
Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Industrial Engineering Technicians (17-3026)		
Work Activities	Exclusivity of Activity	
Communicate technical information	4	
Estimate materials or labor requirements	61	
Read blueprints	10	
Read technical drawings	7	
Schedule employee work hours	60	
Understand technical operating, service or repair manuals	6	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 54

**Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)**

**Associated Occupation: Industrial Engineering Technicians (17-3026)**

Tools and Technologies	Exclusivity
Business function specific software	1
Computer printers	2
Computers	1
Content authoring and editing software	1
Data management and query software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.